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(54) CONNECTING MECHANISM OF ROD FOR EXCAVATOR, ETC.

(57) Abstract:

PURPOSE: To connect rods mutually and stably by bringing a plug and a socket to the state of slipping-off prevention by a cotter pin and stopping the slipping-off of the cotter pin by a stopper ring.

CONSTITUTION: Excavating rods are installed to the main spindle of an excavator, etc., and boring is carried out, and connecting rods R, R, R₁, R₂ in set length are connected successively as boring progresses and a long-sized excavating rod is constituted, and boring at a long distance is executed by the long-sized excavating rod. When the rods are bonded mutually at that time, the plug 1 of the other rod R₂ is fitted tightly to the socket 2 of one rod R₁, and revolving torque is transmitted instantaneously. Cotter pins are inserted

into pinholes 3... penetrated into the plug 1 and the socket 2, and the fitting of the plug 1 and the socket 2 is held under the state of slipping-off prevention. Resilient stopper rings 6, 6 are fitted into circumferential grooves 4, 4 on the socket 2 side, and the slipping-off of the cotter pins is stopped.

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